



Water-Data Report 2008

01582000 LITTLE FALLS AT BLUE MOUNT, MD

Upper Chesapeake Basin
Gunpowder-Patapsco Subbasin

LOCATION.--Lat 39°36'14.7", long 76°37'13.7" referenced to North American Datum of 1983, Baltimore County, MD, Hydrologic Unit 02060003, on left bank at downstream side of Pennsylvania Railroad bridge, 0.2 mi north of Blue Mount, 0.6 mi upstream from mouth, 0.9 mi downstream from First Mine Branch, and 1.2 mi south of White Hall.

DRAINAGE AREA.--52.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1944 to current year.

REVISED RECORDS.--WSP 111: 1944(M), 1945-47(P). WDR MD-DE-85-1: 1984(P).

GAGE.--Water-stage recorders. Elevation of gage is 305 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those above 1,500 ft³/s which are fair, and those for estimated daily discharges (ice effect), which are poor. Slight diurnal fluctuation at low flow caused by mill upstream from station. U.S. Geological Survey satellite collection platform at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 1	1815	*1,840	*5.80
No other peak greater than base discharge			

Minimum discharge, 14 ft³/s, Oct. 9, 10.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15	24	24	50	479	47	57	67	66	37	28	22
2	15	23	27	43	155	45	52	63	58	35	33	21
3	15	23	77	38	82	45	52	59	56	34	35	21
4	16	23	37	e40	68	46	72	57	136	37	28	20
5	15	22	33	e40	62	111	58	54	76	45	27	19
6	16	23	30	38	59	65	58	52	64	46	27	242
7	16	22	31	37	58	64	54	50	60	40	25	66
8	15	22	36	35	52	83	52	49	57	38	27	35
9	15	22	40	38	50	67	51	85	53	39	24	54
10	15	24	46	35	48	60	50	72	54	39	24	41
11	21	23	40	39	43	58	52	63	57	34	23	32
12	20	24	35	37	48	56	85	302	49	33	23	36
13	17	27	37	34	191	54	56	138	48	39	22	41
14	16	25	39	35	100	55	53	100	57	92	38	32
15	16	38	33	33	72	54	50	87	54	41	35	29
16	16	36	131	32	63	59	48	128	48	36	26	27
17	16	27	63	34	58	52	47	98	48	34	24	27
18	16	26	46	46	e64	51	46	92	46	32	23	26
19	17	41	42	44	58	83	45	83	46	31	22	25
20	19	33	38	35	53	113	86	105	44	29	21	25
21	17	30	36	e35	51	71	104	93	44	29	20	25
22	16	28	34	e35	52	66	63	80	42	28	20	24
23	16	26	43	e34	51	62	57	73	41	35	20	24
24	21	25	55	e34	49	59	53	70	40	87	20	24
25	34	24	40	e33	49	57	51	66	39	35	22	24
26	42	28	39	e32	54	56	51	64	38	32	21	30
27	168	34	41	31	58	55	77	64	39	36	20	301
28	43	27	37	e31	48	55	113	69	41	34	21	183
29	29	26	58	e31	46	52	96	60	40	30	39	61
30	27	25	45	e33	---	51	73	58	38	29	36	47
31	25	---	72	32	---	52	---	72	---	29	25	---
Total	765	801	1,385	1,124	2,321	1,904	1,862	2,573	1,579	1,195	799	1,584
Mean	24.7	26.7	44.7	36.3	80.0	61.4	62.1	83.0	52.6	38.5	25.8	52.8
Max	168	41	131	50	479	113	113	302	136	92	39	301
Min	15	22	24	31	43	45	45	49	38	28	20	19
Cfsm	0.47	0.50	0.84	0.69	1.51	1.16	1.17	1.57	0.99	0.73	0.49	1.00
In.	0.54	0.56	0.97	0.79	1.63	1.34	1.31	1.81	1.11	0.84	0.56	1.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	46.8	56.9	66.9	77.6	88.1	94.0	92.5	82.4	70.1	57.2	47.3	48.2
Max	203	129	198	190	187	261	194	202	353	158	159	227
(WY)	(1980)	(1972)	(1997)	(1996)	(1979)	(1994)	(1952)	(1952)	(1972)	(1972)	(1971)	(1975)
Min	16.7	22.7	20.9	22.1	22.9	35.6	27.8	27.0	20.3	10.2	9.44	17.2
(WY)	(1964)	(2002)	(1966)	(1981)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1966)	(1986)

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	Calendar Year 2007	Water Year 2008		Water Years 1944 - 2008	
Annual total	23,463	17,892			
Annual mean	64.3	48.9		69.0	
Highest annual mean				132	1972
Lowest annual mean				23.3	2002
Highest daily mean	859	Mar 2	479	Feb 1	4,730 Jun 22, 1972
Lowest daily mean	15	Sep 27 ^a	15	Oct 1 ^b	4.5 Sep 11, 1966
Annual seven-day minimum	15	Sep 29	15	Oct 1	4.8 Sep 6, 1966
Maximum peak flow			1,840	Feb 1	8,280 Jun 22, 1972
Maximum peak stage			5.80	Feb 1	18.54 Jun 22, 1972
Instantaneous low flow			14	Oct 9 ^d	1.9 Aug 29, 1966
Annual runoff (cfsm)	1.22		0.924		1.30
Annual runoff (inches)	16.50		12.58		17.71
10 percent exceeds	111		76		118
50 percent exceeds	50		40		53
90 percent exceeds	19		22		25

^a Sep. 27, 30, Oct. 1-3, 5, 8-10.^b Oct. 1-3, 5, 8-10.^c From rating curve extended above 1,600 ft³/s on basis of contracted-opening measurement of peak flow.^d Oct. 9, 10.